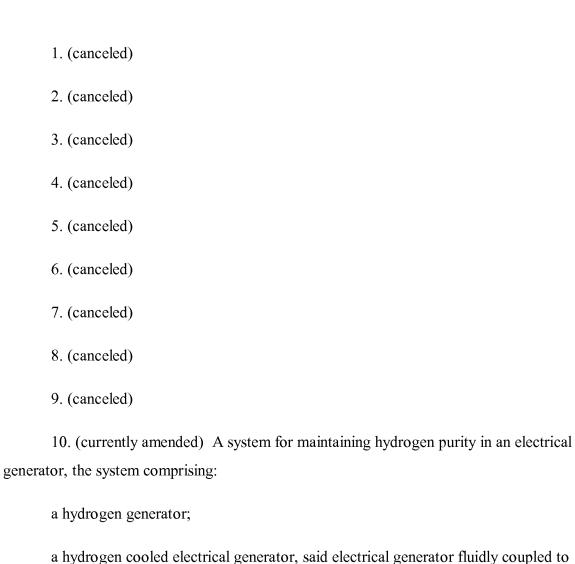
## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims:**



receive hydrogen gas from said hydrogen generator by a gas conduit;

a vent line having a first and second end, said first end being <u>directly</u> fluidly coupled to said electrical generator and said second end being fluidly coupled to the atmosphere;

a valve coupled to said vent line <u>between said hydrogen cooled generator and said</u> vent line second end;

a hydrogen purity monitor operably coupled to said electrical generator and said valve, said hydrogen purity monitor including means for transmitting a signal to said valve; and,

a pressure transducer fluidly coupled to said conduit, said pressure transducer transmitting a signal to said hydrogen generator in response to the gas pressure in said electrical generator falling below a first threshold wherein said hydrogen generator produces hydrogen gas in response to said pressure transducer signal.

- 11. (currently amended) The system of claim 10 wherein said valve operates to release hydrogen gas <u>directly</u> from said electrical generator to the atmosphere in response to a signal from said hydrogen purity monitor.
- 12. (previously presented) The system of claim 11 wherein said hydrogen generator is configured to generate hydrogen gas at a second threshold pressure, said hydrogen generator producing hydrogen gas in response to a reduction in pressure in said electrical generator.
- 13. (original) The system of claim 12 wherein said hydrogen generator is an electrochemical generator having at least one polymer electrode membrane.
  - 14. (cancelled)
- 15. (currently amended) The system of claim 13 further comprising a pressure monitor coupled to said hydrogen cooled electrical generator.

- 16. (previously presented) The system of claim 15 further comprising a hydrogen purifier said hydrogen purity monitor coupled to said electrical generator.
- 17. (previously presented) The system of claim 12 wherein said hydrogen purity monitor provides a signal to said valve when the purity of hydrogen gas in said electrical generator is less than 99% pure.
- 18. (previously presented) The system of claim 12 wherein said hydrogen purity monitor provides a signal to said valve when the purity of hydrogen gas in said electrical generator is less than 95% pure.
  - 19. (canceled)
  - 20. (canceled)
  - 21. (canceled)
  - 22. (canceled)
  - 23. (canceled)
  - 24. (canceled)
  - 25. (canceled)
  - 26. (canceled)
  - 27. (canceled)
- 28. (currently amended) A system for maintaining hydrogen purity in an electrical generator, the system comprising:
- a hydrogen generator, said hydrogen generator having means for disassociating water into hydrogen and oxygen gas;

a hydrogen cooled electrical generator coupled to a turbine, said electrical <u>hydrogen</u> generator being fluidly coupled to <u>directly</u> transfer hydrogen gas to said hydrogen <u>cooled electrical</u> generator by a <u>gas</u> conduit;

a vent line having a first and second end, said first end being <u>directly</u> fluidly coupled to said <u>hydrogen cooled</u> electrical generator and said second end being fluidly coupled to the atmosphere;

a valve coupled to said vent line <u>between said hydrogen cooled electrical generator</u> and said vent line second end, said valve being configured to release hydrogen gas from said electrical generator through said vent line at a predetermined hydrogen gas pressure level;

a hydrogen purity monitor operably coupled to said electrical generator and said hydrogen generator; and,

a pressure transducer fluidly coupled to said conduit, said pressure transducer transmitting a signal to said hydrogen generator in response to the gas pressure in said electrical generator falling below a first threshold wherein said hydrogen generator produces hydrogen gas in response to said pressure transducer signal.

- 29. (previously presented) The system of claim 28 wherein said hydrogen generator produces hydrogen gas at predetermined rate in response to a signal from said pressure transducer.
- 30. (original) The system of claim 28 wherein said valve releases hydrogen gas when the gas pressure in said electrical generator exceeds 100 psi.
- 31. (original) The system of claim 29 wherein said hydrogen generator is an electrochemical generator having at least one polymer electrode membrane.
  - 32. (canceled)

- 33. (canceled)
- 34. (canceled)
- 35. (canceled)
- 36. (canceled)
- 37. (canceled)
- 38. (canceled)
- 39. (canceled)
- 40. (canceled)
- 41. (canceled)
- 42. (canceled)
- 43. (canceled)